



## **SERVICE INSTRUCTIONS**

### **CONVERT “OLD” SFC TO “NEW” SFC**

**Technical Service Upgrade Instructions**

**Please read complete instructions prior to starting.**

#### **WARNING**

This upgrade kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, property damage, personal injury or loss of life may result. The qualified service agency is responsible for the proper installation of this kit. This installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions.

#### **WARNING**

The power supply **MUST** be disconnected before performing this procedure.

#### **WARNING**

Use only the parts supplied with this kit. Use of any parts other than those supplied will void the warranty and could cause unsafe conditions or improper operation of your appliance.

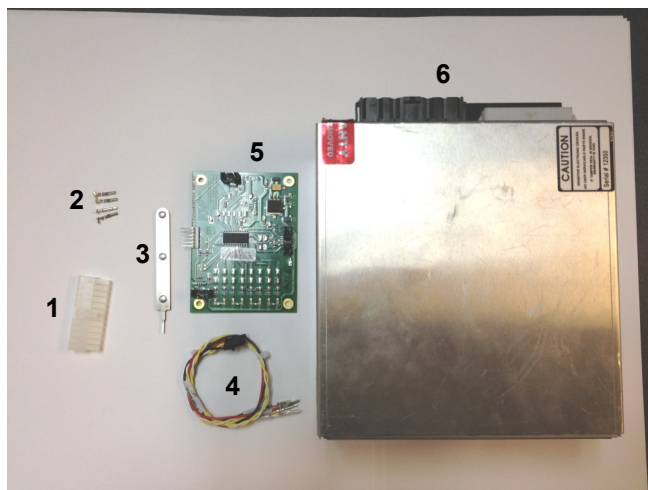
# SPIN<sup>fresh</sup> EBOX Conversion

## Service Instructions



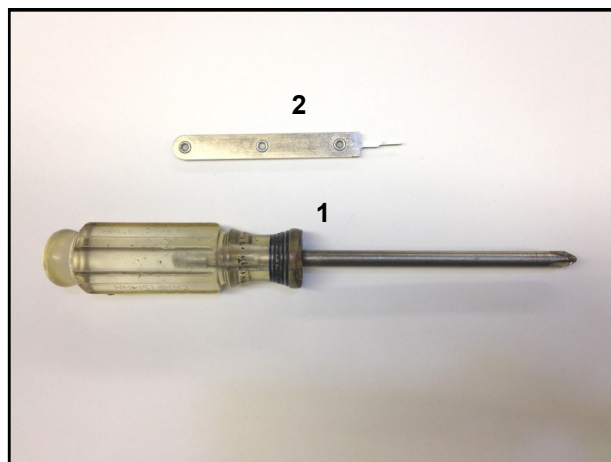
These service instructions are intended to give you step-by-step guidelines while converting 1st generation Perfect Fry SPIN<sup>fresh</sup> models, SFC as it will be mentioned from here on, to the 2nd generation version.

### 2WS802-CL kit Includes



### Supplied Parts Legend

1. 24 Pin Molex Mini Fit Jr. Connector
2. Molex Mini Fit Jr. terminals (x4)
3. Molex Mini Fit Jr. Extractor Tool
4. Encoder board wiring harness
5. V.2 Encoder board
6. 2WS802 EBOX



### Tools Needed Legend

1. #2 Phillips screwdriver
2. Molex Mini Fit Jr. Extractor Tool (supplied)
3. Molex Mini Fit Jr. Crimp Tool 64016-0200 (Not Shown)

# SPINfresh EBOX Conversion

## Service Instructions



1. Remove side panel of unit, using #2 Phillips screw driver, by removing the 5 retaining screws.
2. After screws are removed the panel pops out from the bottom-right corner, then slides out the top.

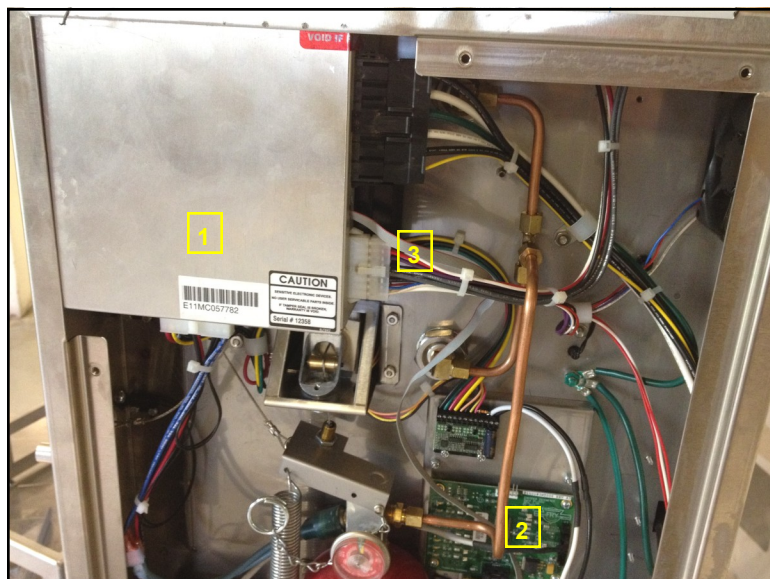


### WARNING

The power supply **MUST** be disconnected before performing this procedure.

After panel is removed, this is the components that should be visible. Please locate all the number components to ensure the following steps apply to the unit you being serviced.

1. EBOX 2WS743
2. Encoder Board 3WT006
3. EBOX to Encoder Board Ribbon Cable





# SPINfresh EBOX Conversion

## Service Instructions



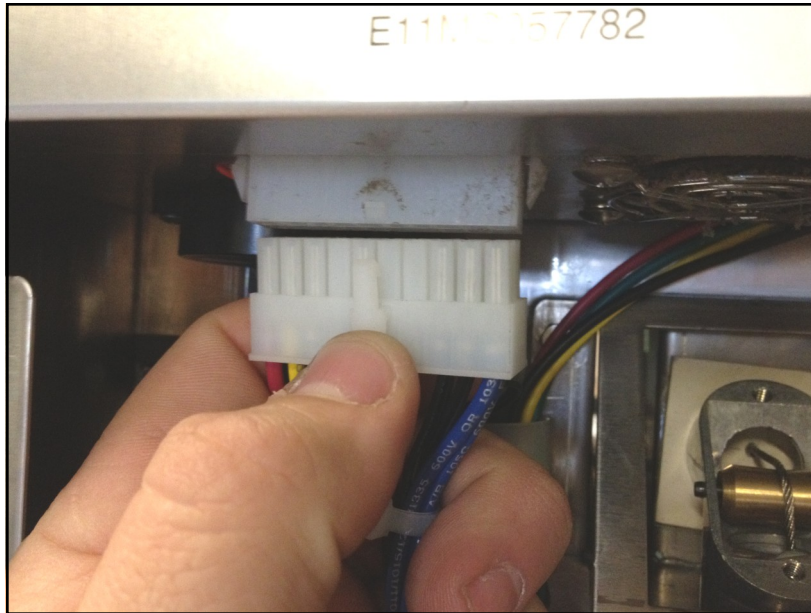
3. Remove ribbon cable from Encoder board.
4. Cut any/all wire ties that attached the ribbon cable to the main harness.



5. Disconnect 16 pin Molex connector from the rear of EBOX. Remove and set aside. (Note: Main power MUST be disconnected before removal)

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## Service Instructions



6. Disconnect 20 pin Molex plug from bottom side of **EBOX**. (Note: Main power **MUST** be disconnected before removal)

7. Remove 6 pin high voltage **PLUG FROM REAR OF ebox**. (Note: Main power **MUST** be disconnected before removal)





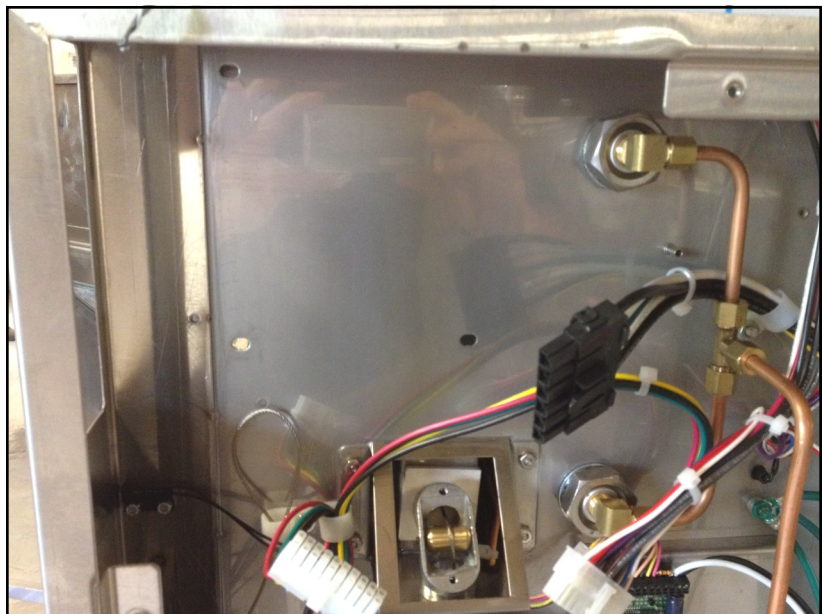
# SPINfresh EBOX Conversion

## Service Instructions



- 8. Using #2 Phillips screwdriver, remove the three (3) EBOX retainer screws.**  
(Note: Using one hand, secure the EBOX so it does not fall after screws are removed.)

- 9. After EBOX is removed, this is what should be visible.**



# SPINfresh EBOX Conversion

## Service Instructions



**10. Using EBOX supplied in kit, install using the existing hardware.** (Note: while tightening screws, insure EBOX is flush to the front of the unit.)

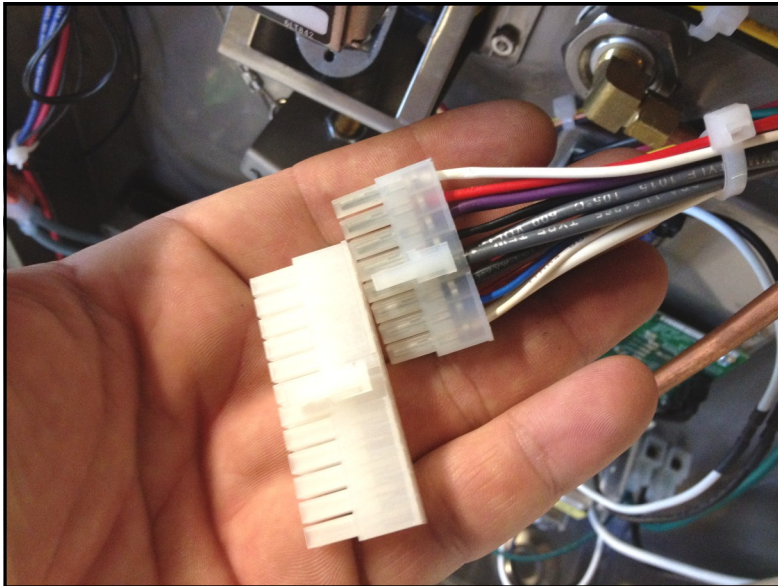
**11. Reinstall the lower 20-pin Molex and 6-pin high-voltage connectors to the lower and rear-upper mating receptacles, respectively.**





# SPINfresh EBOX Conversion

## Service Instructions



**12. Locate the 24-pin Molex Mini Fit Jr. that is supplied in the upgrade kit.**

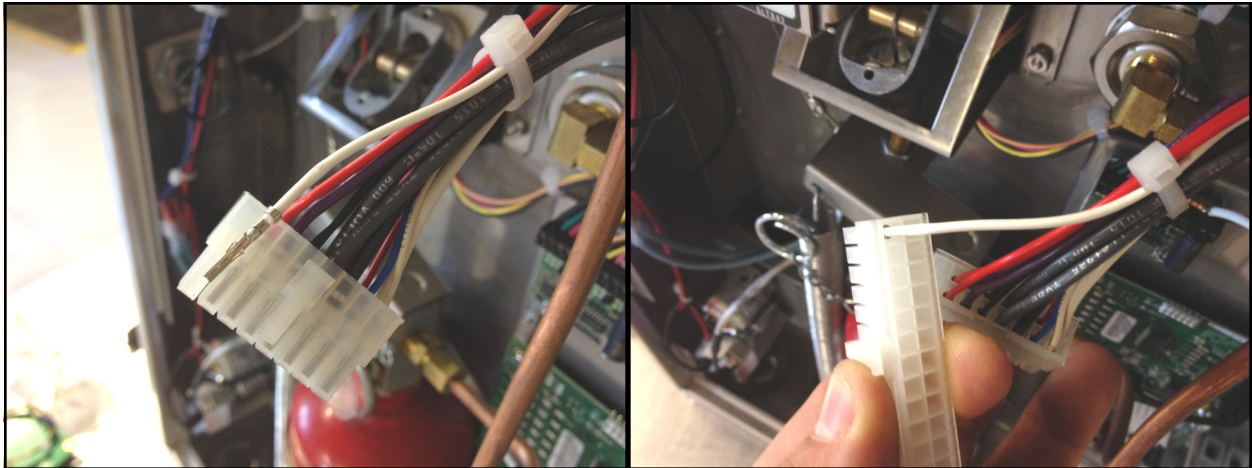
**13. Using the Molex Mini Fit Jr. Extraction tool, begin to transfer all the wires from the 16-pin to the 24-pin Molex connector.** (Note: all circuits must be transferred to the same pin location that it came from.)



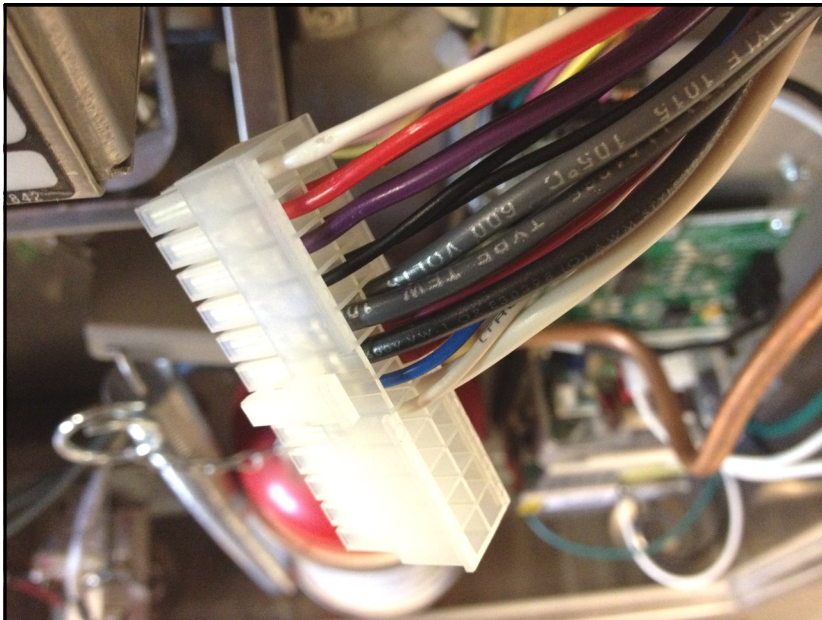


# SPINfresh EBOX Conversion

## Service Instructions



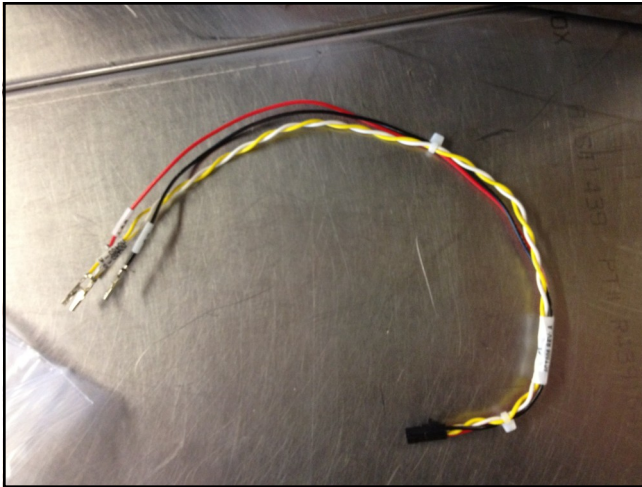
14. Starting with Pin 13 (white wire), remove and transfer each wire (1 at a time is recommended) from their 16-pin location to the corresponding 24-pin location.



15. Repeat for all pins in the harness. (Note: after all pins are transferred, there will be eight (8) empty pins at the bottom of the plug.)

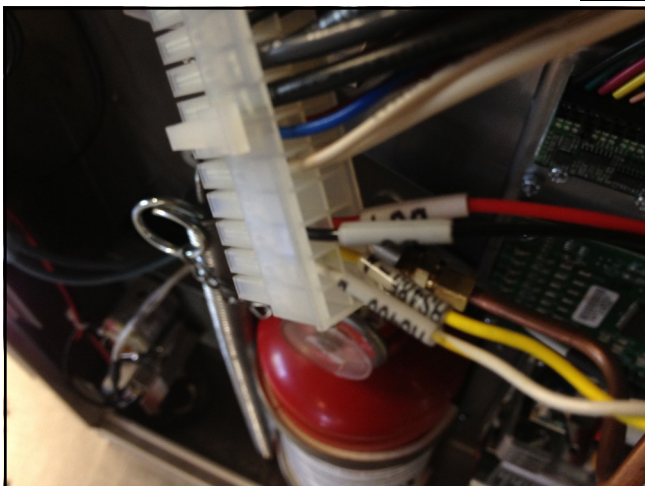
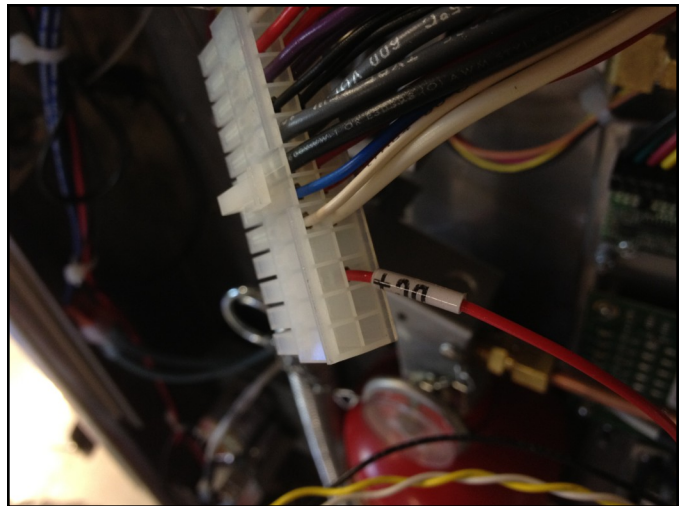
# SPIN*fresh* EBOX Conversion

## Service Instructions



16. Locate harness, 4CT006, supplied in upgrade kit.

17. Install harness into 24-pin Molex connector.



### Pin locations -

Pin 10 - DC+ (red)

Pin 11 - RS485-A (yellow)

Pin 22 - DC- (black)

Pin 23 - RS485-B (white/yellow)



# SPINfresh EBOX Conversion

## Service Instructions

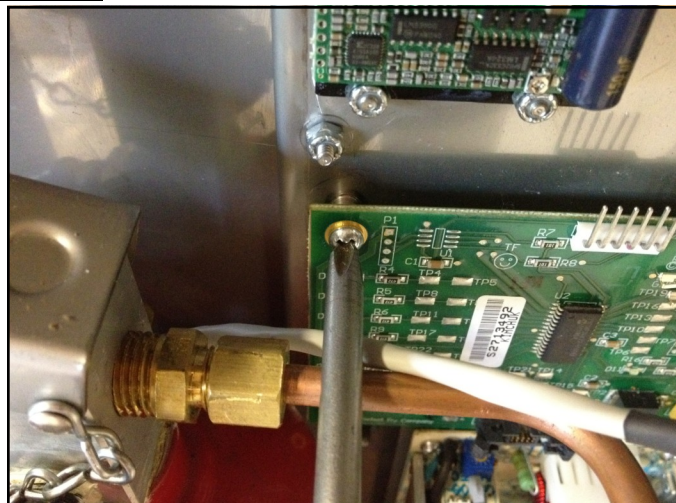


18. Install 24-pin Molex into lower-rear mating connector in EBOX. (Note: make sure connector latch is engaged to contact)



19. Remove 4-pin plug from encoder board, located at the lower-right side of cabinet.

20. Using Phillips screwdriver, remove the four (4) screws holding encoder board.
21. Replace with Encoder board (3WT008) supplied in kit, using the existing hardware.





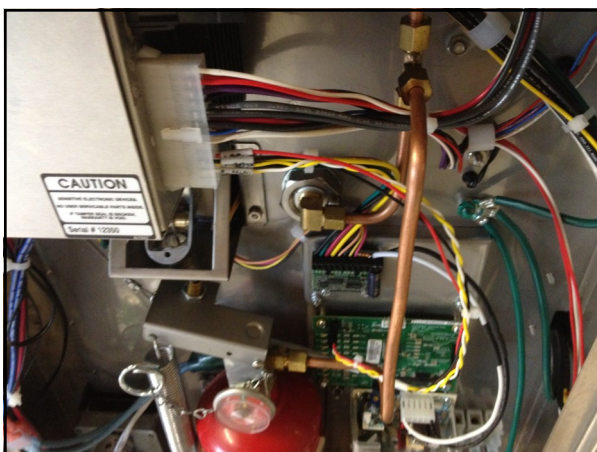
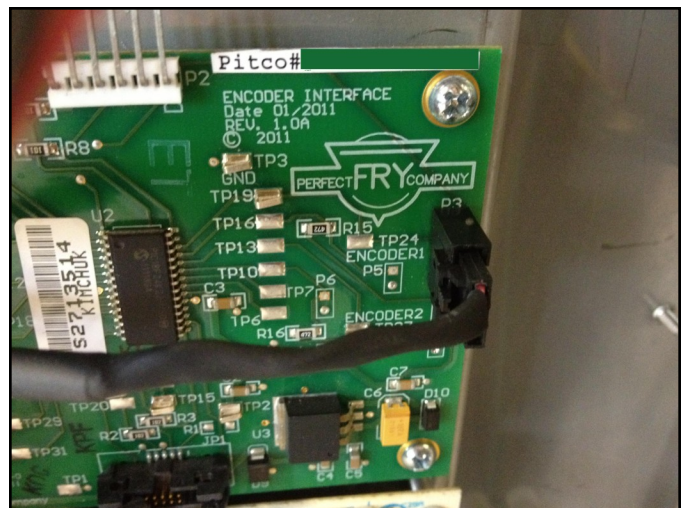
# SPINfresh EBOX Conversion

## Service Instructions



21. Plug in 4CT006 harness into the top-left mating connector on the encoder board. (Note: harness is the one routing from the ebox.)
22. Use wire ties to secure harness to main harness in cabinet.

23. Reinstall 4-pin connector, to the right side of the encoder board, to the mating 4-pin receptacle. (Note: this cable routes from the basket motor to the encoder board.)



24. Install is now complete. Please reinstall side panel. Reconnect main power to the unit. Turn on and test per Start-up instructions located in Operation Manual to insure correct operation. (Note: unit may need basket calibration, please refer to service manual.)